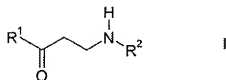


This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A monoalkylaminoketone compound of the formula I

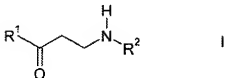


in which

- $R^1$  denotes a ~~saturated, unsaturated or aromatic carbocyclic or heterocyclic~~  
thienyl or furyl radical which is unsubstituted or mono- or polysubstituted  
by  $R^3$  and/or  $R^4$ , provided that  $R^1$  is not 2,5-dimethyl-3-thienyl,
- $R^2$  denotes alkyl having 1-20 C atoms,
- $R^3, R^4$  each, independently of one another, denote H, alkyl or alkoxy having 1-20  
C atoms, aryl, aryloxy or  $COOR^2$ , F, Br, OH, CN,  $NO_2$ ,  $N(R^2)_2$  or  
 $NHCOR^2$ ,

or a salt thereof.

2. (Withdrawn – Currently Amended) Process for the preparation of a  
monoalkylaminoketone compound of the formula I

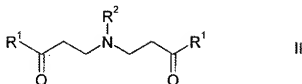


in which

- $R^1$  denotes a ~~saturated, unsaturated or aromatic carbocyclic or heterocyclic~~  
thienyl or furyl radical which is unsubstituted or mono- or polysubstituted  
by  $R^3$  and/or  $R^4$ , provided that  $R^1$  is not 2,5-dimethyl-3-thienyl,
- $R^2$  denotes alkyl having 1-20 C atoms,

$R^3, R^4$  each, independently of one another, denote H, alkyl or alkoxy having 1-20 C atoms, aryl, aryloxy or  $COOR^2$ , F, Br, OH, CN,  $NO_2$ ,  $N(R^3)_2$  or  $NHCOR^2$ ,

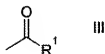
by reacting a compound of the formula II



in which

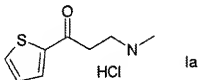
$R^1$  and  $R^2$  have the meaning indicated above, in the presence of an alkylamine of the formula  $R^2NH_2$ , in which  $R^2$  has the meaning indicated above.

3. **(Withdrawn – Currently Amended)** Process according to Claim 2, in which  $R^1$  denotes ~~phenyl~~ or 2-thienyl.
4. **(Withdrawn)** Process according to Claim 2, in which  $R^2$  denotes methyl, ethyl, n-propyl or isopropyl.
5. **(Withdrawn)** Process according to claim 2, wherein the pH for the conversion of the compounds of the formula II into the compounds of the formula I is adjusted to about pH 2-7.5 by addition of an alkylamine of the formula  $R^2NH_2$ .
6. **(Withdrawn)** Process according to claim 2, wherein the conversion of the compounds of the formula II into the compounds of the formula I is carried out at  $0^\circ - 200^\circ C$ .
7. **(Withdrawn – Currently Amended)** Process according to claim 2, wherein firstly the compound of the formula II is obtained by reaction of a mixture of a formaldehyde source with a corresponding alkylammonium salt and a ketone of the formula III

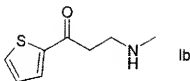


in which R<sup>1</sup> has the meaning indicated in ~~Claim 1~~ claim 2,  
in the presence of a strong acid, and the compounds of the formula II obtained in this way  
are employed without further isolation for the preparation of the compounds of the  
formula I.

8. (Withdrawn) Process for the preparation of compounds of the formula I according to Claim 6, wherein the pH of the strongly acidic reaction mixture comprising the compounds of the formula II is increased to about pH 2-7.5, without further isolation of this compound, by addition of an alkylamine of the formula R<sup>2</sup>NH<sub>2</sub>, and the mixture is subsequently warmed.
9. (Withdrawn) Process for the preparation of compounds of the formula I according to Claim 7, wherein the reaction mixture comprising the compounds of the formula II is warmed to 0°C to 200°C after addition of a corresponding alkylamine.
10. (Withdrawn) Process according to claim 2 for the preparation of 3-methylamino-1-phenyl-1-propanone or 3-methylamino-1-(2-thienyl)-1-propanone.
11. (Withdrawn) Process according to claim 2, wherein an acid-addition salt of the compound of the formula II is employed, and an acid-addition salt of the compound of the formula I is obtained.
12. (Previously presented) A compound of claim 1 which is of the formula Ia:



13. (Previously presented) A compound of claim 1 which is of the formula Ib:



or a salt thereof.

**14. (Canceled)**

**15. (Currently Amended)** A compound of claim 1, wherein R<sup>1</sup> denotes ~~phenyl~~ or 2-thienyl.

**16. (Previously presented)** A compound of claim 1, wherein R<sup>2</sup> denotes methyl, ethyl, n-propyl or isopropyl.

**17. (Currently Amended)** A compound of claim 1, wherein R<sup>1</sup> is selected from: 2- or 3-furyl, ~~or 2- or 3-thienyl, 1,2- or 3-pyrrolyl, 1,2,4- or 5-imidazolyl, 1,3,4- or 5-pyrazolyl, 2,4- or 5-oxazolyl, 3,4- or 5-isoxazolyl, 2,4- or 5-thiazolyl, 3,4- or 5-isothiazolyl, 2,3- or 4-pyridyl, 2,4,5- or 6-pyrimidinyl, furthermore preferably 1,2,3-triazol-1,4- or 5-yl, 1,2,4-triazol-1,3- or 5-yl, 1- or 5-tetrazolyl, 1,2,3-oxadiazol-4- or 5-yl, 1,2,4-oxadiazol-3- or 5-yl, 1,3,4-thiadiazol-2- or 5-yl, 1,2,4-thiadiazol-3- or 5-yl, 1,2,3-thiadiazol-4- or 5-yl, 3- or 4-pyridazinyl, pyrazinyl, 1,2,3-, 4,5,6- or 7-indolyl, 4- or 5-isindolyl, 1,2,4- or 5-benzimidazolyl, 1,3,4,5,6- or 7-benzopyrazolyl, 2,4,5,6- or 7-benzoxazolyl, 3,4,5,6- or 7-benzisoxazolyl, 2-, 4,5,6- or 7-benzothiazolyl, 2,4,5,6- or 7-benzisothiazolyl, 4,5,6- or 7-benz-2,1,3-oxadiazolyl, 2,3,4,5,6,7- or 8-quinolyl, 1,3,4,5,6,7- or 8-isoquinolyl, 3,4,5,6,7- or 8-cinnolyl, 2,4,5,6,7- or 8-quinazolinyl, 5- or 6-quinoxalyl, 2,3,5,6,7- or 8-2H-benzof[1,4]oxazinyl, 1,3-benzodioxol-5-yl, 1,4-benzodioxan-6-yl, 2,1,3-benzothiadiazol-4- or 5-yl, 2,1,3-benzoxadiazol-5-yl, 2,3-dihydro-2-,3-,4- or 5-furyl, 2,5-dihydro-2-,3-,4- or 5-furyl, tetrahydro-2- or -3-furyl, 1,3-dioxolan-4-yl, tetrahydro-2- or -3-thienyl, 2,3-dihydro-1-,2-,3-,4- or 5-pyrrolyl, 2,5-dihydro-1-,2-,3-,4- or 5-pyrrolyl, 1,2- or 3-pyrrolidinyl, tetrahydro-1-,2- or 4-imidazolyl, 2,3-dihydro-1-,2-,3-,4- or 5-pyrazolyl, tetrahydro-1-,3- or 4-pyrazolyl, 1,4-dihydro-1-,~~

~~2, 3 or 4 pyridyl, 1,2,3,4 tetrahydro 1, 2, 3, 4, 5 or 6 pyridyl, 1, 2, 3 or 4 piperidinyl, 2, 3 or 4 morpholinyl, tetrahydro 2, 3 or 4 pyranyl, 1,4 dioxanyl, 1,3-dioxan 2, 4 or 5-yl, hexahydro 1, 3 or 4 pyridazinyl, hexahydro 1, 2, 4 or 5-pyrimidinyl, 1, 2 or 3 piperazinyl, 1,2,3,4 tetrahydro 1, 2, 3, 4, 5, 6, 7 or 8-quinolyl, 1,2,3,4 tetrahydro 1, 2, 3, 4, 5, 6, 7 or 8 isoquinolyl, 2, 3, 5, 6, 7 or 8-3,4 dihydro-2H-benzo[1,4]oxazinyl, 2,3-methylenedioxyphenyl, 3,4-methylenedioxyphenyl, 2,3-ethylenedioxyphenyl, 3,4-ethylenedioxyphenyl, 3,4-(difluoromethylenedioxy)phenyl, 2,3-dihydrobenzofuran 5 or 6-yl, 2,3-(2-oxomethylenedioxy)phenyl, 3,4-dihydro-2H-1,5-benzodioxepin 6 or 7-yl, 2,3-dihydro-benzofuranyl or 2,3-dihydro-2-oxofuranyl,~~  
each optionally substituted by R<sup>3</sup> and/or R<sup>4</sup>.

18. (Canceled)

19. (Previously presented)      A compound of claim 1, wherein R<sup>3</sup> and R<sup>4</sup> are both H.